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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,389	01/21/2004	Kunishige Oe	Q79276 1311	
65565 SUCHBUE 24	7590 12/31/2007		EXAMINER	
SUGHRUE-265550 2100 PENNSYLVANIA AVE. NW			VARGOT, MATHIEU D	
WASHINGTO	TON, DC 20037-3213		PAPER NUMBER	
*			1791	
			MAIL DATE	DELIVERY MODE
			12/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/760,389	OE ET AL.				
		Examiner	Art Unit				
		Mathieu D. Vargot	1791				
	The MAILING DATE of this communication app		orrespondence address				
Period fo	· •	/ 10 05T TO EVENE A MONTH	O) OD THIRTY (OO) DAVO				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period of the reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>09 O</u>	ctober 2007.					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims						
4)⊠	4)⊠ Claim(s) <u>1-9,11 and 12</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
·	6) Claim(s) <u>1-9,11 and 12</u> is/are rejected.						
-	Claim(s) is/are objected to.	- alastian raquiramant					
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers	•					
9)[	The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the						
4.4.	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Oπice	Action of form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
	see the attached detailed Office action for a list	or the certified copies not receive	<b>34</b> .				
Attachmen		<b></b>	(070.440)				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F 6) Other:					

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1.The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al –632 (see col. 14, lines 6-21) in view of Japanese Patent 2002-356,615.

Yoshimura et al -632 (see col. 14, lines 6-21) discloses the basic claimed process of manufacturing an optical waveguide for optically connecting optical devices by disposing a photosensitive resin material between optical devices, the photosensitive resin containing a photosensitizer which would undergo a structural change to allow the resin to cure and form a connective optical path and removing the material (including photosensitizer) that does not polymerize—ie, is not irradiated—such that resultant cavities are formed after the optical path is formed. Essentially, the primary reference fails to disclose that the instant sensitizer is used. However, note that polyimide epoxy resins would be used (see col. 14, line 16). Japanese –615 teaches a polyimide resin with the instant 1,4-dihydropyridine derivative photosensitizer present in the instant concentrations and that such would be useful in forming an optical waveguide material. It would have been prime facie obvious to one of ordinary skill in the art to use the resin composition taught in Japanese -615 as the resin in the primary reference to form an optical waveguide with the required transparency and superior heat resistance. See the abstract of Japanese -615. The formulae given for the sensitizer in Japanese -615

appears to encompass the structures recited in instant claims 5-9—if these are not explicitly taught in the reference, then they surely would have been obvious thereover. Fluorinated resins are conventionally used in optical applications and such would have been an obvious choice for the resin in Yoshimura et al –632 for the heat resistance offered by these materials.

2.Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Applicant's comments directed to the previous rejection are now moot in view of the new rejection. While the previous references may have been directed to removing parts of films, it is clear that Yoshimura et al –632 is removing resin material that is not irradiated, and not merely a film. Surely applicant would admit that the use of the instant photosensitizer as taught by Japanese –615 would have been obvious in the process of Yoshimura et al –632.

3.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mathieu D. Vargot whose telephone number is 571 272-1211. The examiner can normally be reached on Mon-Fri from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson, can be reached on 571 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Vargot December 21, 2007 Modulary Examiner Art Unit 1791

12/21/07